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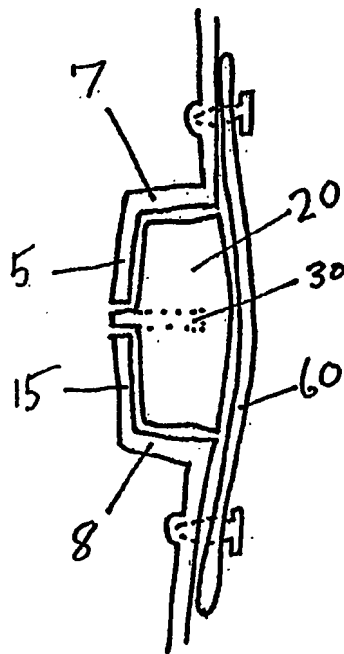
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(54) Title: AN ARTICULATED ORTHOSIS PROVIDING LIFT ASSIST



(57) Abstract: An orthosis having at least one adjustable joint for articulating two hinged parts of the orthosis, the joint comprises a tensor for carrying the load applied between the two hinged parts. Compression surfaces coupled to the hinged parts are constructed to apply compression forces to a compression element when the angle between the two parts widens. Preferably the compression element comprises a block of resilient material. The joint allows adjustability of the unloaded angle between the hinged parts by varying the dimensions of the block, while selecting blocks having different compressional characteristics such as modulus of elasticity allows varying the degree of resistance to widening the angle between the two hinged parts. The joint is particularly advantageous in constructing an articulating leg brace.

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